

HD CCTV Total Solution

IR Dome Camera User Manual



The product image may differ from the actual product.
Please use this camera with a DVR which supports HD video recording.
Please read the instructions thoroughly before using the product.



CAUTION

RISK OF ELECTRIC SHOCK



CAUTION:

To reduce the risk of electric shock, do not expose this apparatus to rain or moisture.

Only operate this apparatus from the type of power source indicated on the label.

The company shall not be liable for any damages arising out of any improper use, even if we have been advised of the possibility of such damages.



The lightning flash with arrowhead symbol, within an equilateral triangle, is intended to alert the user to the presence of uninsulated "dangerous voltage" within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



This exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



ROHS Announcement

All lead-free products offered by the company comply with the requirements of the European law on the Restriction of Hazardous Substances (RoHS) directive, which means our manufacture processes and products are strictly "lead-free" and without the hazardous substances cited in the directive.



The crossed-out wheeled bin mark symbolizes that within the European Union the product must be collected separately at the product end-of-life. This applies to your product and any peripherals marked with this symbol. Do not dispose of these products as unsorted municipal waste.



CE Mark

This apparatus is manufactured to comply with the radio interference.

The company does not warrant that this manual will be uninterrupted or error-free. We reserve the right to revise or remove any content in this manual at any time.

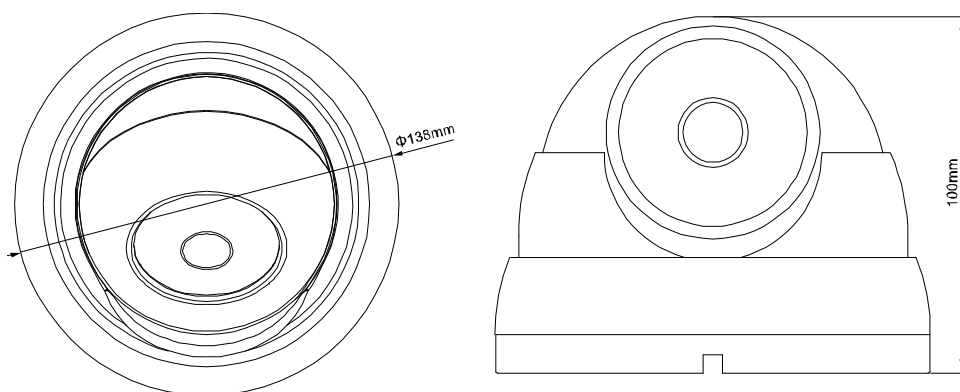
FEATURES

1. 1/2.9" CMOS Sensor
2. 1080P video output
3. f2.8 ~ 12mm vari-focal lens
4. Low light sensitivity of 0.1 Lux / F1.4(Wide)~F2.8(Tele), 0Lux (IR LED ON)
5. IP66 for weather-proof application

PACKAGE CONTENT

- IR camera
- User manual
- Wrench
- Tool for focal length & focus adjustment
- Screws & wall plugs

DIMENSIONS



*Dimensional Tolerance: $\pm 5\text{mm}$

SPECIFICATIONS*

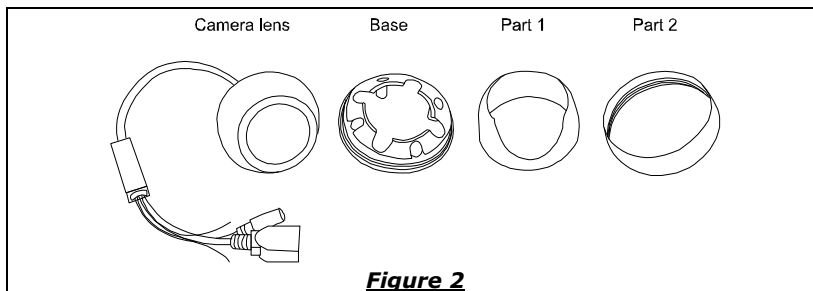
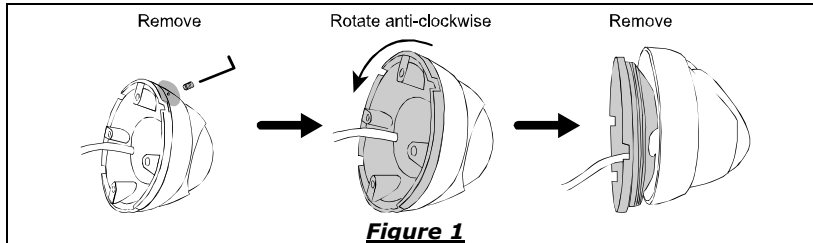
Pick-up Element	1/ 2.9" CMOS image sensor
Number of Pixels	1936(H) x 1096(V)
Video Frame Rate	1080P@30fps / 1080P@25fps
Min. Illumination	0.1 Lux / F1.4(Wide)~F2.8(Tele), 0 Lux (IR LED ON)
S/N Ratio	More than 48dB (AGC OFF)
Shutter Speed	1/30 (1/25) sec ~ 1/33750 (1/28125) sec
Lens	f2.8 ~ 12mm / F1.4 ~ F2.8
Lens Angle	Wide: 103° (Horizontal) / 54° (Vertical) / 122° (Diagonal) Tele: 31° (Horizontal) / 17° (Vertical) / 36° (Diagonal)
IR LED	24 units
IR Effective Distance	Up to 20 meters
IR Shift	YES
Day & Night Mode	YES
IRIS Mode	AES
White Balance	AUTO / INDOOR / OUTDOOR / USER
AGC	High / Middle / Low / Off
Sharpness	Adjustable
IP Rating	IP66
Operating Temperature	-20°C ~ 40°C
Power Source ($\pm 10\%$)	DC12V / 1A
Current consumption ($\pm 10\%$)	210mA (IR OFF); 430mA (IR ON)

* The specifications are subject to change without notice.

INSTALLATION

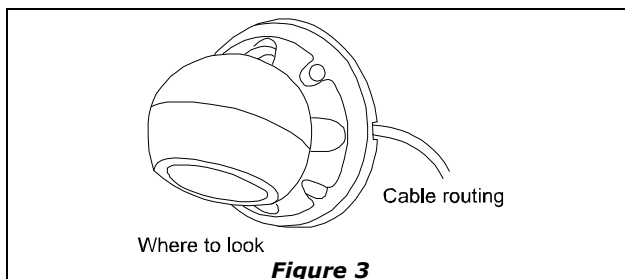
Step1: Find the screw on the camera, and remove it with the supplied wrench.

Then, remove the camera base as shown in **Figure 1**, and disassemble the camera to four parts as shown in **Figure 2**.

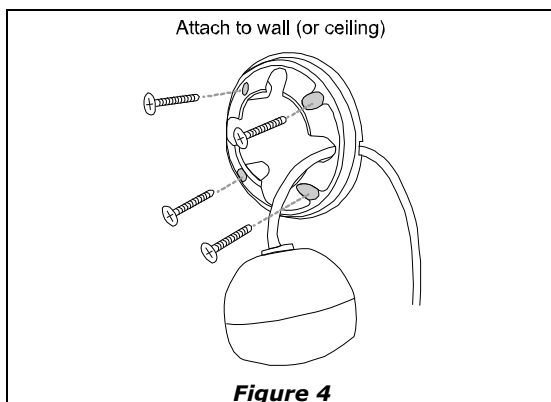


Step2: Locate where you want to install this camera (wall or ceiling), and drill holes on the wall or ceiling for securing the bracket and routing the cables (if necessary).

Step3: Attach the bracket to the wall (or ceiling), and make sure the cables are routed and arranged properly in the bracket, as shown in **Figure 3**.

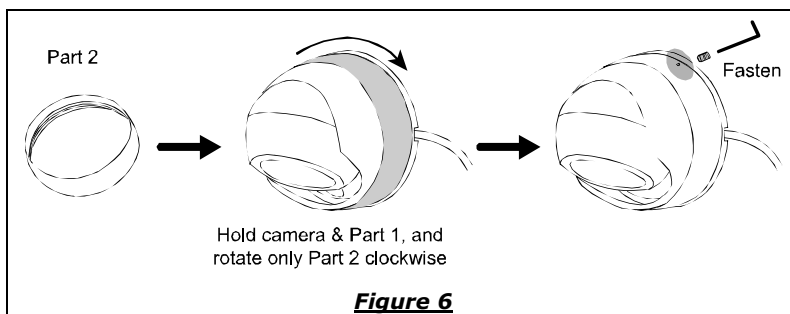
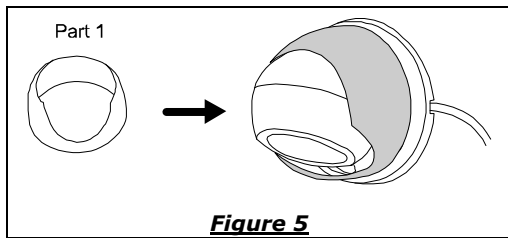


Step4: Secure the bracket to the wall (or ceiling), as shown in **Figure 4**.



Step5: Slightly adjust the camera lens to where it's supposed to face, and replace Part 1 and Part 2 back, as shown in **Figure 5** and **Figure 6**.

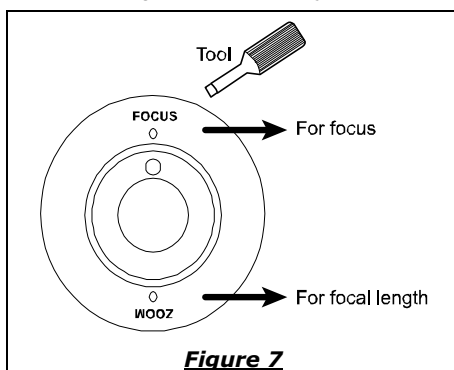
Step6: Hold the camera lens and Part 1, rotate only Part 2 clockwise to the end, and replace the screw removed in Step1 back, as shown in **Figure 6**.



Step7: Power on your camera, and check the viewing angle on the PC.

Step8: Adjust the position, viewing angle, focal length and focus of the camera, if necessary.

For focal length and focus adjustment, please check **Figure 7** to know where to do.



CONNECTION

1. DC12V Input Terminal

Connect the power terminal of the camera to a DC 12V regulated power supply.

NOTE: Please use the correct power adaptor, DC12V (regulated), to operate this unit. The power tolerance of this unit is $DC12V \pm 10\%$. Over maximum DC 12V power input will damage this unit.

2. Video Output Connector (VIDEO OUT)

Connect the camera video output to the video input of a DVR with 75Ω coaxial cable.


NOTE: To ensure the camera has sufficient protection against moisture, an extra waterproof measure, such as by using an insulating tape, must be used to cover the power and video connectors after connection.

CAMERA PARAMETERS

This camera series has its own configuration menu, and either of the two methods below is available to access the menu based on the camera model you have.

NOTE: The methods below are available only when the camera is used with our brand's HD CCTV DVR.

■ Method 1

On the DVR live view, click the channel which connects this camera to display in the full screen mode, and select .

Click "" to enter the menu of camera parameters.





■ Method 2


On the DVR live view, right click to show the DVR main menu, and select **ADVANCED CONFIG** → **DCCS**. Then, select the channel which connects this camera, and click **SETUP**.

Click "" to enter the menu of camera parameters.

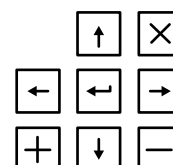
ADVANCED CONFIG				
CAMERA DETECTION ALERT NETWORK DISPLAY RECORD DEVICES DCCS NOTIFY EXIT	CH1	CH2	CH3	CH4
	MENU		SETUP	
	F.W.		1015	
	DEVICE		XXXXX	
	CONNECTION		OK	

When the camera menu is entered, you'll see the keys on the bottom right corner to move between and change those configurations.

    Move between selections or change settings.

 Enter the currently-selected item.

X Quit the camera parameters mode.



MENU			DESCRIPTION
EXPOSURE	LENS TYPE	FIX	No function.
	SHUTTER	AUTO / 1/25 / 1/30 / 1/50 / 1/60 / 1/100 / 1/120 / 1/250 / 1/500 / 1/1000 / 1/3000 / 1/10000	Set the shutter speed for exposure.
	AGC	OFF / LOW / MIDDLE / HIGH	Set the level of Auto Gain Control to automatically adjust the image when the light level changes.
	EXPOSURE VALUE	1 ~ 17	Set the value for exposure.
WHITE BALANCE	MODE	AUTO / INDOOR / OUTDOOR / USER	Set the white balance mode among AUTO , INDOOR , OUTDOOR and USER .
DAY & NIGHT	MODE	EXT / COLOR / B/W	Set the day & night mode among EXT , COLOR and B/W .
IMAGE	BRIGHTNESS	1 ~ 256	Set the level of brightness to adjust the brightness of the image.
	CONTRAST	1 ~ 256	Set the level of contrast.
	COLOR GAIN	1 ~ 256	Set the level of gain.
	SHARPNESS	1 ~ 256	Set the level of sharpness to enhance the clarity of image detail by adjusting the aperture and sharpening the edges.
	NR	OFF / LOW / MIDDLE / HIGH	Set the noise reduction mode to LOW / MIDDLE / HIGH to suppress the noise based on the current environment, or select OFF to disable this function.
	MIRROR	NONE / H / V / HV	Rotate the images horizontally (H) or vertically (V), or horizontally & vertically (HV) simultaneously based on your installation situation when necessary.
	LANGUAGE	ENGLISH / 中文(簡)	Select the language of the menu: English / Simplified Chinese.
FUNC. SET	MOTION DETECTON	SCREEN ALARM	Select ON to enable motion detection or OFF to disable this function.
		PAD OUTPUT	No function.
		SECTION	Select the area for motion detection.
		SENSITIVITY	Select the sensitivity for motion detection from LOW , MIDDLE and HIGH .
	PRIVACY	MASKING	Select ON / OFF to enable / disable this function.
		COLOR	Select a color to show area masking.
		HEIGHT / WIDTH / LEFT / RIGHT / TOP / BOTTOM	Set the area to mask.
	SYSTEM SETUP	OSD COLOR	Select the color for this OSD display.
		OSD BG	Select the background color for this OSD display.
	RESET	FACTORY MODE	Enable to restore the camera parameters to factory default values.
	SAVE & EXIT	SAVE & EXIT	Select YES to save and exit, or select NO to exit without saving.